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15-XT-6093 (GEMS 0123 PA)

In the claims:

1. (Currently Amended) A filament circuit resistance adjusting apparatus, for a filament circuit having a filament with a first resistance, said apparatus comprising a first nonhard-wired and removable resistor electrically coupled to the filament and having a second resistance, said first nonhard-wired and removable resistor adjusting system perceived resistance of the resistance of the filament circuit.

2. (Currently Amended) An apparatus as in claim 1 wherein said first nonhard-wired and removable resistor is in series with or parallel to the filament.

3. (Currently Amended) An apparatus as in claim 1 further comprising one or more resistors electrically coupled to said first nonhard-wired and removable resistor and further adjusting the resistance of the filament circuit.

4. (Currently Amended) An apparatus as in claim 3 wherein said one or more resistors are in series with, parallel to, or are both in series with and parallel to said first nonhard-wired and removable resistor and the filament.

5. (Currently Amended) An apparatus as in claim 1 further comprising:

a circuit board electrically coupled to the filament and ~~the~~ said first nonhard-wired and removable resistor;

wherein said circuit board supports ~~the~~ said first nonhard-wired and removable resistor.

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6. (Original) An apparatus as in claim 5 wherein the circuit board comprises a heat sink layer.

7. (Currently Amended) An apparatus as in claim 5 further comprising a heat sink coupled to the circuit board and said first nonhard-wired and removable resistor.

8. (Currently Amended) An apparatus as in claim 5 further comprising a resistor socket electrically coupled to said circuit board and said first nonhard-wired and removable resistor, wherein said first nonhard-wired and removable resistor plugs into said socket.

9. (Currently Amended) An apparatus as in claim 5 further comprising a filament resistance adjusting apparatus socket electrically coupled to the filament and the circuit board, wherein said circuit board plugs into said filament resistance adjusting apparatus socket.

10. (Currently Amended) A filament resistance adjusting apparatus, for a first filament circuit having a first filament with a first resistance, said apparatus comprising:

a circuit board electrically coupled to the first filament; and

a first nonhard-wired and removable resistor electrically coupled to said circuit board and the first filament and having a second resistance, said first nonhard-wired and removable resistor is in series with the first filament and adjusting the resistance of the first filament circuit.

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11. (Currently Amended) An apparatus as in claim 10 further comprising:

a second filament having a third resistance; and

a second nonhard-wired and removable resistor having a fourth resistance, said second nonhard-wired and removable resistor is electrically coupled to said second filament and said circuit board;

said second nonhard-wired and removable resistor is in series with the second filament and adjusting the resistance of the second filament circuit.

12. (Currently Amended) An imaging tube assembly having a filament circuit comprising:

a cathode comprising a filament; and

a filament circuit resistance adjusting apparatus comprising;

a circuit board electrically coupled to the filament; and

a first nonhard-wired and removable resistor electrically coupled to said circuit board and the filament and having a second resistance, said first nonhard-wired and removable resistor adjusting system perceived resistance of the resistance of the filament circuit.

13. (Currently Amended) An apparatus as in claim 12 further comprising:

an imaging tube encasing having a recessed portion;

wherein said filament circuit resistance adjusting apparatus is positioned within said recessed portion.

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14. (Original) An apparatus as in claim 12 further comprising a filament circuit resistance adjusting apparatus socket electrically coupled to the filament and the circuit board, wherein said circuit board plugs into said socket.

15. (Original) An apparatus as in claim 14 further comprising a cathode receptacle electrically coupled to said filament circuit resistance adjusting apparatus socket.

16. (Currently Amended) An apparatus as in claim 12 further comprising a resistor socket electrically coupled to said circuit board and said first nonhard-wired and removable resistor.

17. (Currently Amended) A method of adjusting resistance of a filament circuit having a filament with a first resistance, said method comprising:
directly and electrically coupling a resistor first nonhard-wired and removable resistance device, having a second resistance, to the filament such that system perceived resistance of the filament is altered;

unplugging said first nonhard-wired and removable resistance device; and
plugging in a second nonhard-wired and removable resistance device in replacement of said first nonhard-wired and removable resistance device.

18. (New) An apparatus as in claim 5 wherein said circuit board is configured to reside within an encasing of an imaging tube.

19. (New) An apparatus as in claim 5 wherein said circuit board is configured to be nonhard-wired and removable from an imaging tube.

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20. (New) An assembly as in claim 12 wherein said circuit board is configured to be nonhard-wired and removable from an imaging tube.

21. (New) An assembly as in claim 12 wherein said filament circuit resistance adjusting apparatus is attached and part of an imaging tube of the imaging tube assembly.